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TITLE: AUTOMATIC STEERING CONTROL DEVICE FOR STEERING RUNNING WHEEL

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## INVENTOR-INFORMATION:

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## ABSTRACT:

PURPOSE: To improve the safety of running by automatically controlling the steering angle of both or one of front and rear steering running wheels in response to the magnitude of the inclination angle of a running bogie fitted with steering running wheels at the front and rear and running in a circular pipe.

CONSTITUTION: Steering running wheels 4a, 4b steered by a steering motor 2A in the direction to make the inclination angle of a running bogie 7 zero are provided at the front section of the running bogie 7 running in a circular pipe 6, and steering running wheels 4c, 4d likewise steered by a steering motor 2B are provided at the rear of the running bogie 7. An inclination angle detector 8 is provided on the running bogie 7, rotating speed detectors 9A, 9B are provided on the steering motors 2A, 2B, and steering angle detectors 10A, 10B are provided on the steering running wheels 4b, 4d respectively. The steering angle of both or one of the front and rear steering running wheels 4a, 4b is controlled in response to the compared result of the detected value and the set value of the inclination angle.

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